Power, Monitor, Measure, Access, Manage and Control Your Entire IT Infrastructure





Reduce costs and improve efficiency, uptime and capacity planning





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About Raritan



Ching-I Hsu Chairman and CEO

An industry pioneer, Raritan was established in 1985. Today, we are a leading provider of power and energy management, KVM, serial and access solutions.

We offer IT and facility directors, managers and administrators the control they need to increase power management efficiency, improve data center productivity and enhance branch office operations. In over 50,000 locations worldwide, our integrated in-band and out-of-band products help companies monitor and manage their energy, servers and other IT devices.

Our intelligent PDUs, combined with energy management software and environmental sensors, offer remote power control and monitoring at the rack and device level, empowering data center owners with information to improve uptime and capacity planning, while efficiently utilizing energy to save power and money. And our access solutions, including KVM, serial and centralized management devices, offer unprecedented control of servers to maintain mission-critical environments.

After more than 25 years of profitable growth and technical innovation, Raritan products are used to control millions of servers at more than 50,000 data centers around the world. Our long list of customers includes global names like IBM, Intel, Unilever, Cisco, eBay, JP Morgan Chase, Microsoft, AT&T, Deutsche Bank and NASA

At Raritan we sell our products and solutions exclusively through a worldwide network of partners.



You can't manage your IT infrastructure if you don't know what it's doing.

With increasingly complex infrastructures, limited space and steady if not shrinking budgets, it's more important than ever for IT managers like you to resolve problems quickly and correctly, ensuring that your systems continue to operate smoothly. As energy efficient as possible.

To do this right, to make intelligent decisions, you need accurate, consolidated information at your fingertips.

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We offer a broad range of data center management solutions, all designed to help you monitor, measure, access, manage and control your complex IT infrastructure.

- Data Center Infrastructure Management
- Power & Capacity Management

That's where Raritan can help

- Power Distribution Units (PDUs)
- Environmental Management & Sensors
- Asset Management & Tracking
- Centralized Server Management
- KVM Switches
- Serial Console Switches
- LCD KVM Drawers
- Accessories
- Extended Warranties



Data Center Infrastructure Management



Today's labs, server rooms and data centers encompass a vast set of devices, technologies and applications. A typical environment may include:

- Physical and virtual servers
- Embedded service processors such as iLO, DRAC, RSA and IPMI
- Network devices such as routers and switches
- PDUs

To provide efficient and effective services and problem resolution, IT administrators need in-band and out-of-band access, power control and a variety of costly point solutions for different technologies, vendors and product generations. This means deploying convenient, fast and secure ways to locate, view, access and control all the devices in your server rooms and data centers.

Applications:

- Data center visualization
- Asset management
- Automated provisioning
- Capacity management
- Power management
- Power monitoring
- SNMP discovery
- IP space management
- Change management



DCIM Software

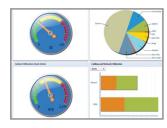




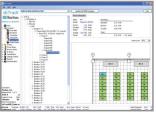


dcTrack® is an award-winning, easy-to-use solution that provides you with real-time information about your facilities, networks and IT. dcTrack clearly visualizes your infrastructure to help you manage placement of your IT equipment, make informed capacity management decisions and keep accurate track of your data center assets. dcTrack is easy to implement, integrate, administer and operate, providing a fast ROI.









- Track end-to-end power and data circuits including intermediate circuit points
- Real-time views of power consumption and heat dissipation, raised floor space and rack elevations
- AutoCAD® integration makes new cabinet floor maps fast and easy
- Replace several inaccurate Excel® and Visio® files and trips to the data center
- Make changes quickly to your IT equipment (move, add and delete)
- Time-based reservations to support what-if capacity analysis



Power Management Solutions

Raritan offers intelligent power and energy management solutions which allow data center operations managers, IT administrators and facilities managers to reduce costs and improve efficiency, uptime and capacity planning. Our solutions are standards based and fit seamlessly into your current infrastructure.



Raritan's Dominion PX family of rack PDUs provides accurate, real-time kilowatt-hour information for each individual asset in the data center.

Raritan's energy management software gathers power and sensor data and manages Raritan's PDUs as well as those from APC, Server Technology, Geist and HP.

Our rack power distribution units (PDUs) are mounted in an IT equipment rack and provide electrical power to various IT devices, such as servers, routers, firewalls, etc. Today, rack PDUs come in a number of configurations that help you manage power in the data center.

- Monitor power and energy down to the individual IT device with outlet metering
- Identify stranded excess power capacity
- Know which racks are hot or cold
- Generate reports for bill backs, kWh, CO₂ emissions and energy rebates
- Increase uptime through monitoring, alerting and load shedding



Energy Management Software



Power IQ® energy management system enables you to become more effective in power capacity management and efficient in energy consumption.

It provides for accurate IT device, outlet group, rack, branch circuit and data center level energy monitoring and reporting. Power IQ simplifies management of and data collection for multiple rack PDUs.

Through one Web browser, the scalable Power IQ manages APC®, Avocent®, Baytech®, Eaton, Geist, HP, Knurr®, Liebert®, MRV, Raritan®, Rittal®, Server Technology®, Tripp Lite and UNITE™ rack PDUs, UPSs and more.

"Power IQ easily allows me to manage and forecast my power needs in the data center. The centralized aggregation of my power consumption will be invaluable in planning future data centers and analyzing future power needs."

Matt Pusateri
 Systems Administrator
 WebAssign



Intelligent Rack PDUs / Inline Metering



Dominion® PX™ family of high-quality rack power distribution units (PDUs) offers real-time remote power monitoring of current (amps), voltage, power (kVA, kW) and energy consumption (kWh) with +/– 1% billing-grade accuracy.

The Dominion PX series offers hundreds of models to meet all your data center applications, including models with outlet switching, individual outlet metering, high power for blade servers and high density applications, and 400V power distribution.

Broadest portfolio of smart PDUs to choose from

Features	Outlet Metered, Outlet Switched (PX-5000)	Outlet Metered (PX-4000)	Inline Metered (PX-3000)	PDU Metered, Outlet Switched (PX-2000)	PDU Metered (PX-1000)
Compatible with Power IQ	>	>	>	>	>
Power Metering	Outlet, PDU	Outlet, PDU	Line	PDU	PDU
Outlet Switching	>			>	
Outlet Mapping to KVM for Switching	>			>	
Environmental Monitoring (e.g. temperature, humidity)	>	•	>	>	>
User Management (e.g. permission, Active Directory®)	>	~	>	*	>
Thresholds and Alerts	>	>	>	>	>
SNMP	>	>	>	•	>
Web Browser	>	•	>	•	>
Remote Access	Serial, Ethernet	Serial, Ethernet	Serial, Ethernet	Serial, Ethernet	Serial, Ethernet



Environmental Management & Sensors



EMX is a 1U rack and environmental management appliance that serves as a hub that monitors sensors including temperature, humidity, airflow, air pressure, smoke, door open and contact closure.

- Wired and wireless network connectivity
- Works with Raritan's asset management tags and environmental sensors
- Works with Raritan's energy management software

Sensors





Raritan offers an ever expanding range of quality plug-and-play sensors that include temperature, humidity, contact closure, air flow and air pressure.

- Plug into Dominion PX rack PDU or EMX
- User-configurable high and low thresholds and alerts are supported by Raritan's Dominion PX and Power IQ

"Dominion PX can provide me with the precision required to calculate my true operational costs to the last penny."

- Dean Nelson Director of Data Center Strategy eBay



Asset Management & Tracking



NEW!

Asset Management Tags and Sensors (AMT, AMS)

A unique and innovative solution consisting of asset management tags (AMT) and asset management sensors (AMS) to identify the location of IT assets down to the U level in a rack.

- Asset tags attach to IT devices and plug into asset sensor
- Modular sensor bars support racks of all sizes
- Connects to Raritan's Dominion PX PDUs and EMX

With this asset management solution you can:

- Minimize the hours needed to track IT assets saving time and money
- Quickly conduct physical inventories with accuracy and pass audits
- ▶ Efficiently consolidate or virtualize data centers
- Improve the IT department's alignment with business and management objectives
- Optimize strategic and tactical decision-making for the IT environment by tracking IT changes and growth in real time

Model	Description
AMS-42	Asset Management Sensor kit for 42U height rack. 1 connector and 1 RGB LED per U space.
AMS-45	Asset Management Sensor kit for 45U height rack. 1 connector and 1 RGB LED per U space.
AMS-48	Asset Management Sensor kit for 48U height rack. 1 connector and 1 RGB LED per U space.
AMS-54	Asset Management Sensor kit for 54U height rack. 1 connector and 1 RGB LED per U space.
AMT-100	100 pack of intelligent asset management tags with electronic ID and barcode for AMS-nn.



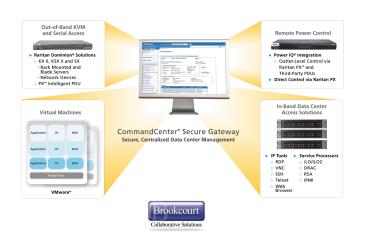
Centralized Server Management



CommandCenter® Secure Gateway (CC-SG) is available as a rack-mountable hardware solution or a virtual appliance, CC-SG lets you easily consolidate access to physical and virtualized servers, intelligent PDUs and serial devices with a single, secure appliance.

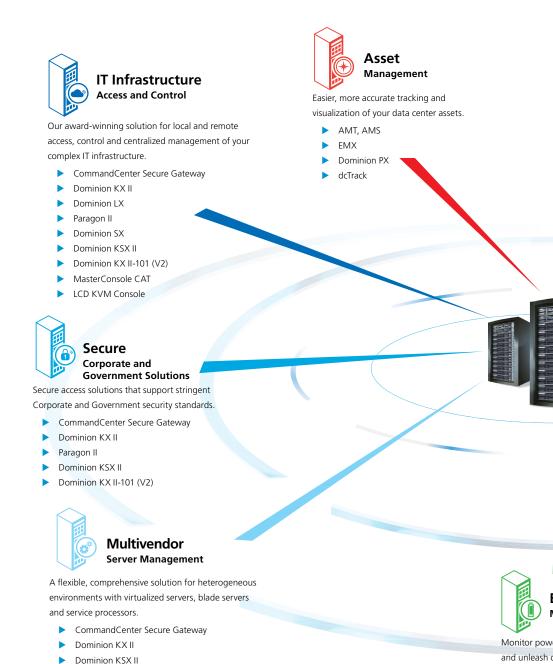
From small and medium server rooms to large enterprises with multiple data centers around the globe, CC-SG is relied upon worldwide for secure management of resources in a variety of settings. Its key features are designed to meet the needs of today's IT administrators:

- Secure, single sign on to a single IP address for managing all of Raritan's KVM series and intelligent PDU solutions
- Centralized, role-based, user access policy management
- Supports remote access and power control through service processors and IP tools – including HP® iLO/2/3, Dell® DRAC, IBM® RSA II and IMM, IMPI, RDP, VNC, SSH and Telnet, as well as Web browser applications
- Consolidated audit trail, including detailed activity reports



We offer a broad range of data center may you monitor, measure, access, manage a

Dominion KX II-101 (V2)

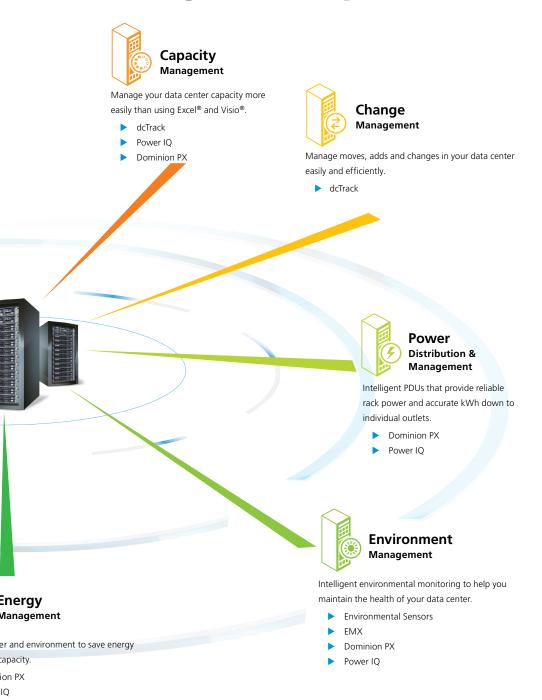


Domin

Power



anagement solutions, all designed to help nd control your complex IT infrastructure.





KVM-over-IP Switches for Enterprise





Multi Port KVM-over-IP Switches

Dominion® KX II is an award-winning enterprise-class KVM-over-IP switch that provides BIOS-level access to blade and rack servers at the rack, over IP and via modem.

Reduces expensive downtime via out-of-band BIOS-level access in emergencies from home, office or while traveling – now also via iPhone® or iPad®.

- ▶ Ideal for enterprise data centers, test labs and branch offices
- Extreme reliability with dual power and dual GigE
- ► High video quality, Absolute Mouse Synchronization™ and virtual media capability. Browser-based local and remote interface
- ▶ Supports up to 8 remote users and up to 64 servers
- ➤ Smart card/CAC support, FIPS 140-2 validated cryptographic module
- Supports 1920x1080 (HD) and 1600x1200 remote video resolutions, including widescreen formats

Remote Users over the Network	64 Ports	32 Ports	16 Ports	8 Ports	1 Port		
8	DKX2-864	DKX2-832					
4	DKX2-464	DKX2-432	DKX2-416				
2		DKX2-232	DKX2-216				
1	DKX2-132	1 DKV2 422 DKV2 444	DIOVA 422 DIOVA	DICV2 422	DKX2-116	DKX2-108	DKX2-101
'		DRAZ-110	DKA2-100	DKX2-101-V2			

- Users over the network are simultaneous. Up to 8 users can view/control a single server with PC Share®.
- Dominion KX II 864 and 832 support 2 users at the rack. All other models support 1 user at the rack.
- All models have dual power supply, dual LAN, and support Virtual Media and Absolute Mouse Synchronization.

KVM-over-IP Switches for Enterprise



Single Port KVM-over-IP Switches

Dominion® KX II-101 (V2) is a single-port KVM-over-IP switch in a palm-size form factor. Whether it's used in a branch office, a data center or a lab, the Dominion KX II-101 (V2) provides unblocked out-of-band access in a Zero-U unit.

- For environments like remote offices, where there are a small number of servers
- For environments requiring many-to-many connectivity between large numbers of users and target devices
- Local port available
- 256-bit AES encryption, support for RADIUS, LDAP and Active Directory®
- ▶ Built-in Universal Virtual Media
- Power over Ethernet (KX II-101 model only)

Model	Description
DKX2-101	Secure single port KVM-over-IP unit with optional local port access. Includes integrated KVM cable, USB cable, serial cable, AC/DC adapter, and Rack-mount kit.
DKX2-101-V2	Secure single port KVM-over-IP switch with integrated local port access and virtual media. Includes PS2/USB/VGA KVM cable, AC/DC adapter, and rack-mount kit.



KVM-over-IP Switches for Enterprise



KVM and Serial over IP

Dominion® KSX II integrates KVM over IP and serial control in a single appliance. Ideal for mid-size server rooms and remote offices, the Dominion KSX II is an out-of-band access solution for colocated servers and networking devices.

- Remote KVM and serial console access in a single appliance
- ▶ BIOS-level access to devices if the OS fails
- Dial-up access if the network fails
- Virtual Media file transfer capabilities for patches and upgrades

Model	Description
DKSX2-144	4-port KVM, 4-port serial, power control port, and built-in modem, with rack mount brackets.
DKSX2-188	8-port KVM, 8-port serial, power control port, and built-in modem, with rack mount brackets.



KVM-over-IP Switches for SMB / SOHO



NFW!

Multi Port KVM-over-IP Switches

Dominion® LX is a high-quality, cost-effective KVM-over-IP solution for evolving small and midsize businesses. It's the tool you need to cost-effectively manage a constantly changing network environment, provide consistent access to company data and information, expand service capabilities, and focus on strategic initiatives.

- ▶ Economical, remote access from anywhere
- ▶ Efficient, reliable server management
- Minimum initial investment with cost-effective scalability

Model	Description
DLX-108	Economical, extensible 8-port KVM-over-IP switch, 1 remote, 1 local user, virtual media, single power and single LAN.
DLX-116	Economical, extensible 16-port KVM-over-IP switch, 1 remote, 1 local user, virtual media, single power and single LAN.
DLX-216	Economical, extensible 16-port KVM-over-IP switch, 2 remote, 1 local user, virtual media, single power and single LAN.



Analog KVM Switches for Enterprise



Paragon II is our second generation, battle-tested, secure Cat5 analog KVM solution with the industry's best video performance. Paragon II offers higher video resolution over greater distances, non-blocked access for up to 64 users and thousands of multiplatform servers, optional IP access and centralized management – plus secure, Smart Card technology.

- Industry's best video quality with resolutions as high as 1920 x 1440 at distances of up to 300 meters
- Smart Card reader for KVM access to data centers for added security
- Cost-effective, space-saving stacking unit expands up to
 128 non-blocked server ports with less cable than cascading
- Multiple video for up to four user stations
- Video redirect provides easy redirection of video to any user station within a Paragon II system
- Manual and automatic video tuning and skew compensation
- ► Kensington Expert Mouse® support for Mac® environments
- Integrated power management for convenience
- Optional KVM-over-IP capabilities for remote access

	128 ports	64 ports	42 ports	32 ports
Users	Main Switch Stacking Unit	Main Switch Stacking Unit	Main Switch	Main Switch
16	P2-UMT1664M	DO LIBATACCANA		
16	P2-UMT1664S	P2-UMT1664M		
8		P2-UMT832M		P2-UMT832M
٥		P2-UMT832S		PZ-UIVI I 63ZIVI
4			P2-UMT442	
2			P2-UMT242	
User	P2-EUST	Paragon II Enhanced User Station		
Stations	P2-EUST/C	Enhanced User Station - integrated Smart Card reader		



Analog KVM Switches for SMB / SOHO



MasterConsole® CAT the most economic KVM solution to manage midsize data centers, allows one or two users to control up to 256 servers by cascading two levels.

- ▶ Cat5/6 cables, saving you space and allowing easier cabling
- Unique "keep-alive" design which ensures nonstop server operation in case of power loss to the switch
- Works with every leading server (Microsoft® Windows® NT, Windows Me, Windows 2000, Windows XP, Windows 2003, Windows Vista, Novell® NetWare, UNIX® and Linux®)
- Optional user station with Cat5/6 connection

Available models

		8 ports	16 ports		
Users	Main Switch Bundles		Main Switch	Bundles	
1	MCCAT18	-	MCCAT18	-	
	MCCAT28-UST: Switch with User Station			MCCAT216-UST: Switch with User Station	
2	MCCAT28	MCCAT28-PAC: Switch with 8 MCUTP06-USB cables MCCAT216		MCCAT216-PAC: Switch with 8 MCUTP06-USB cables	



MasterConsole® Z is a space-saving, flexible KVM solution that allows one user to access and manage up to 64 (PS/2, USB, Sun) servers through a daisy-chain of Computer Interface Modules, one connected to each target server.

- Simple plug-and-play operation
- On-site flash firmware upgrades
- Keep-alive keyboard/mouse emulation
- ▶ Support of high-resolution video up to 1600 x 1200
- Control servers up to 215 meters away

Serial Console Switches



Dominion® SX is a secure, serial console server enabling serialover-IP access via SSH or Web browser. Whether it's used in data centers or remote offices, the Dominion SX provides a single, secure, out-of-band view of multiple serially-managed servers, network devices and power strips from anywhere. Features include:

- ▶ AES and 128-bit SSL encryption
- ▶ Models with 4 to 48 ports and built-in modem available
- ► Flexible authentication support RADIUS, LDAP(S), Kerberos v.5, Active Directory and TACACS+
- Available models with dual power supplies, built-in modem and redundant LAN interface

			Number of Ports			
		4	8	16	32	48
Local Ports	Power Supply					
	Dual-		DSXA-8	DSXA-16	DSXA-32	
1	AC			DSXA-16-DLM	DSXA-32-DLM	DSXA-48
	Single-		DSX-8			
	AC	DSXB-4-M	DSXB-8-M			
	Dual-				DSXA-32-AC	
	AC			DSXA-16-DL	DSXA-32-DL	DSXA-48-AC
2	Single- AC	DSX-4				
	Dual- DC					DSXA-48-DC



LCD KVM Drawers



Raritan's 17" and 19" LCD KVM Consoles combine video, keyboard and touchpad functionality in 1U design for easy, at-the-rack server access. They seamlessly connect to our Paragon II analog KVM switches, Dominion KX II KVM-over-IP switches or KVM switches from other vendors, providing a single workstation to manage the entire rack of servers.

Available models

Model	Description
T1700	1U 17"LCD KVM Drawer for at the rack access.
T1900	Industrial LCD KVM Console. 19" LCD Panel. 1U rack mount form.

LCD KVM Switches



17" LCD KVM Switches combine an LCD console drawer with a CAT5 KVM switch into one, easy-to-install 1U device giving you an all-in-one solution for your rack management needs. Each unit lets you access 8, 16 - up to 256 servers - directly at the rack, or from your desk up to 200 meters away.

Model	Description
TMCAT1728	1U 17"LCD Drawer. Cat5 KVM Switch. Dual user. 8 ports.
TMCAT17216	1U 17"LCD Drawer. Cat5 KVM Switch. Dual user. 16 ports.

Accessories

Managing an IT infrastructure is a 24/7 challenge. So it's more important than ever to find and deploy devices and accessories that work together the first time, every time.

For these reasons and more, count on Raritan for a complete range of device accessories and rack management. Our components were designed for top performance and compatibility, giving you the tools you need to stay in control.

Computer Interface Modules (CIMs)

The best KVM switches in the world won't work without the right computer interface module (CIM). Raritan offers a full line of CIMs for every application.

KVM Extenders

Raritan's Cat5 Reach extender gives you remote access to multiple servers connected to a KVM switch up to 300 meters away.

Converters, Adapters and Emulators

Raritan's full line of converters, adapters and emulators let you convert keyboard, monitor and mouse signals to emulate other platforms.

Rack Management

Make sure your Raritan devices fit perfectly in your rack opening with these custom Raritan rack mount brackets.

Extended Warranty

Raritan's products are covered by the most extensive standard warranty in the industry. Also available are affordable premium support and service options that include advanced replacement and technical support.

Ask your Raritan representative for further information.



References

Whether you manage an IT infrastructure in the financial, technology, government, or Telecomm industry – or any other industry for that matter – the need to improve uptime and efficiency through intelligent data center management solutions is more important than ever.

That's why some of the world's top organizations have turned to us for help... and why our customer base now represents a broad cross section of industries and geographies.

























Morgan Keegan





































































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